

NOAA NWS

Integrated Dissemination Program (IDP)



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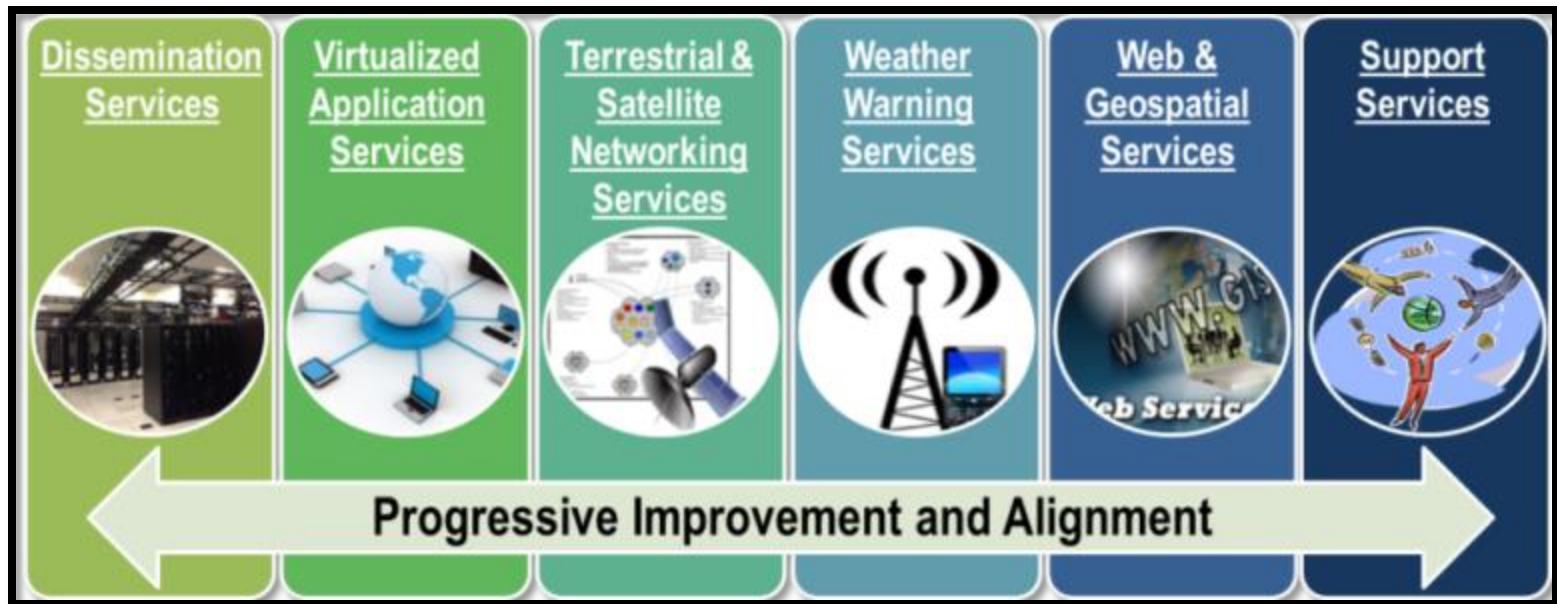
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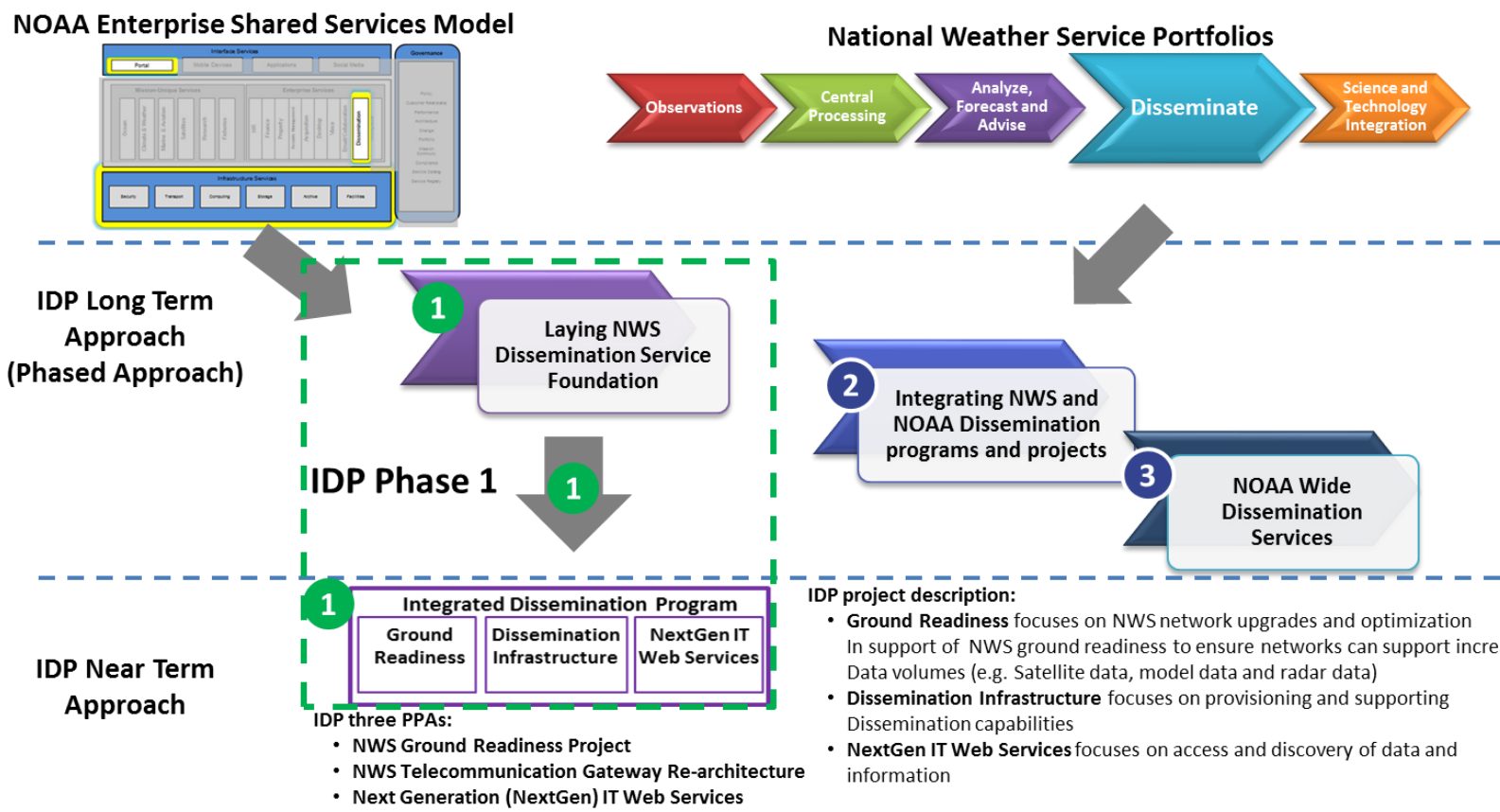
Integrated Dissemination Program (IDP)

- Established to transform NOAA's dissemination capabilities from a collection of independent stovepipes to an integrated, enterprise-wide dissemination service



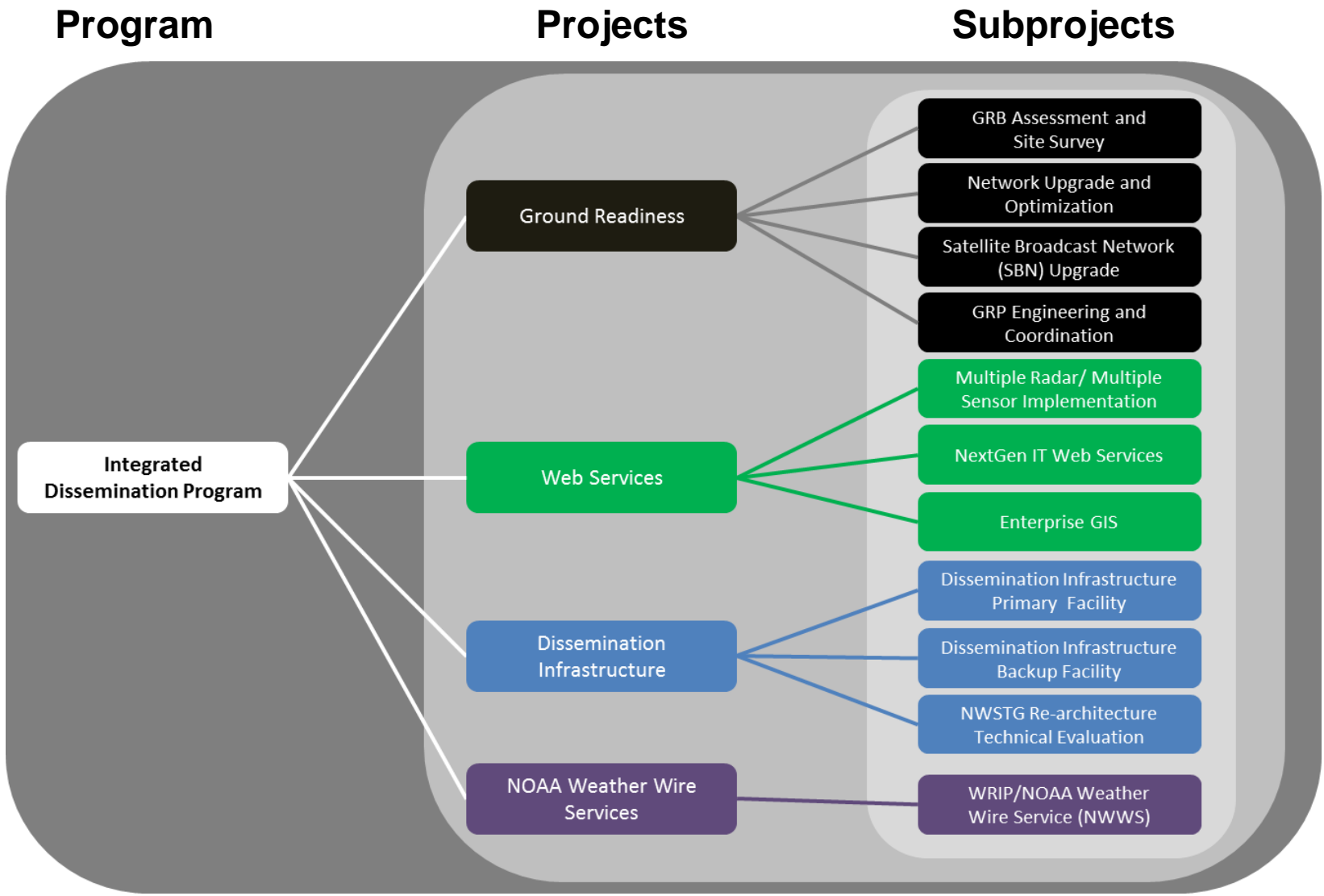
IDP Overview

- IDP plans to deliver NOAA Wide Dissemination Services in a phased approach
- In Phase 1, IDP's "near term" focus is on executing against its 3 Program, Project and Activities (PPAs) requirements: NWS Ground Readiness Project, NWS Telecommunication Gateway (Re-architecture), and NWS Next Generation IT Web Services.





IDP's Projects and Subprojects



Note – Illustrated above is a representation of IDPs project and subproject as of February 2014
As the Program evolves, additional projects/subprojects will be stood-up



IDP Project: Ground Readiness

Network Upgrade & Optimization

Provide telecommunication upgrades to ensure the NWS network is able to accommodate the increased volume of data due to increases in model, radar and satellite (e.g., GOES-R, GOES-S, and JPSS) data

Satellite Broadcast Network (SBN) Expansion

The NWS's Advanced Weather Interactive Processing System (AWIPS) SBN is the primary data-supplier network for over 95% of the NWS field offices

- The SBN Upgrade will increase the SBN bandwidth to meet Ground Readiness and will ensure that NWS field offices can receive critical weather data using the SBN

GRB Assessment and Site Survey

The purpose of the GOES-R Rebroadcast (GRB) Site Survey Project is to ensure that NWS Centers & Regions can receive GOES-R data and products, thus extending their current operational capabilities to exploit this next generation of satellite data

NWS Sites to be upgraded with GRB Capabilities

NCWCP in College Park, MD

NHC in Miami, FL

SPC in Norman, Oklahoma

SWPC in Boulder, CO

Pacific Region in Honolulu, HI

Guam

Alaska Region in Anchorage, AK

AWC in Kansas City, MO





IDP Project: NextGen IT Web Services



Implement a new, net-centric, weather information dissemination capability to fulfill NWS's role in the congressionally mandated Next Generation Air Traffic System (NextGen) directive

Improve access and delivery of weather data to internal and external stakeholders using national and international systems and standards

Provide common access for users to discover and retrieve NOAA weather data

Provide a standards-based, general Web Services capability positioned to support wider NOAA dissemination services needs

Weather accounts for 70% of all air traffic delays within the U.S. National Airspace System (NAS)

	Flight	Gate	Remarks
	FR3916	42	Canceled
ampino	FR2372	41	Delayed
	FR3002	54	Canceled
	FR232	53	Canceled
ubeck	FR901	58	Canceled
	FR434	45	Delayed
enna	FR034	55	Delayed
	FR2314	48	Canceled
	FR203	44	Canceled
	FR584	56	

The Federal Aviation Administration (FAA) has determined two thirds of this is preventable with better weather information (better content, better assimilation, better consistency, etc.)

IDP Project: Dissemination Infrastructure

Build primary and backup dissemination infrastructure

Ensure NWS GOES-R and JPSS ground readiness (increase in satellite, model, and radar data)

Implement a scalable, robust, secure, and commonly shared dissemination infrastructure

Standardize dissemination scalable architecture

Support NOAA OCIO Principles

- Build Enterprise Shared Services
- Modernize IT Infrastructure
- Consolidate Data Centers

Build out IDP primary and backup dissemination infrastructure

